INT#N ATIONAL SEARCH REPORT

International Application No
PCT/EP2O04/O536O4

					
A. CLASSII	FICATION OFSUBJECT MATTER C12N15/11 A61K31/7125 A61K31/ A61K31/7048 A61P35/O0 C07K14/	•	A61K31/52		
According to	DINTERNATIONAL PATCHE Classification (IPC) or to both national classification	ation and IPC			
B. FIELDS	SEARCHED				
Minimum do	cumentation scarched (classification system followed by classification C12N A61K A61P	on symbols)			
	n searched other than minimum documentation to the extent that				
Electronic di EPO-Inte	ata base consulted during the international search (name of data be		ms used)		
C DOCUME	ENTS CONSIDERED TO BE RELEVANT				
Category °	Citation of document, with indication, where appropriate, of the re	elevant passages	Relevant to claim No		
Х	ARTEAGA C L ET AL: "REVERSAL OF RESISTANCE OF HUMAN BREAST CARCIVIVO BY NEUTRALIZING ANTIBODIES TRANSFORMING GROWTH FACTOR-BETA JOURNAL OF THE NATIONAL CANCER IVOL 91, no. 1, 6 January 1999 (1999-01-06), page 1999-01-06), page 1999-01-06, page	1,3,7-9, 11-16			
	XP00 3 40473 ISSN: 0027-8874				
Υ	the whole document		1-17		
Y	WO 94/25588 A (BIOGNOSTIK GES ; ULRICH (DE); BRYSCH WOLFGANG (DE SCHLINGENS) 10 November 1994 (19 cited in the application the whole document	Ξ);	1-17		
X Furth	er documents are listed in the continuation of box C	X Patent family members as	re listed in annex		
'A' document consider E' carlier de filing de L' document which is citation 'O' document other nother no	which may throw doubts on priority clatm(s) or s cited to establish the publication date of another or other special reason (as specified) t referring to an oral disclosure, use, exhibition or	'T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention X' document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken atone "Y' document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art '&' document member of the same patent family			
	equal completion of the international search August 2005	Date of mailing of the internation			
		Authorized con	30 P' 2006		
Name and m	nailing address of the ISA European Patent Office P B 5818 Patentlaan 2 NL 2280 HV Hijswijk Tel (f31 -70) 340-2040, Tx 3 S51 epo nl, Fax (131-70) 340 3016	Authorized officer Andres , S			

INT SNATIQNAL SEARCH REPORT

International Application No
PCT/EP2004/ 3604

	PCT/EP2004/ 3 3604					
C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT Category Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No.						
Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.					
WOJTOWICZ-PRAGA SLAWOMIR: "Reversal of tumor-induced immunosuppression by TGF-beta inhibitors." INVESTIGATIONAL NEW DRUGS 5 vol. 21, no. 1, February 2003 (2003-02), pages 21-32, XPO08035079 ISSN: 0167-6997 cited in the application the whole document	1-17					
YU D ET AL: "HYBRID OLIGONUCLEOTIDES: SYNTHESIS, BIOPHYSICAL PROPERTIES STABILITY STUDIES, AND BIOLOGICAL ACTIVITY" BIOORGANIC & MEDICINAL CHEMISTRY, vol. 4, no. 10, 1996, pages 1685-1692, XP0OO644792 ISSN: 0968-0896						
RUBENSTEIN MARVIN ET AL: "Inhibition of PC-3 prostate cancer cell growth in vitro using both anti sense oligonucleotides and taxol." MEDICAL ONCOLOGY (TOTOWA), vol. 20, no. 1, 2003, pages 29-35, XPGO8035083 ISSN: 1357-0560 the whole document						
WO 99/63975 A (BIOGNOSTIK GES ; BRYSCH WOLFGANG (DE); SCHLINGENSIEPEN KARL HERMANN (D) 16 December 1999 (1999-12-16) cited in the application						
WO 01/68146 A (BIOGNOSTIK GES; SCHLINGENSIEPEN KARL HERMANN (DE); SCHLINGENSIEPEN RE) 20 September 2001 (2001-09-20) cited in the application						
WO 2004/005552 A (MONIA BRETT P; DOBIE KENNETH W (US); FREIER SUSAN M (US); ISIS PHARMA) 15 January 2004 (2004-01-15) page 54 - page 55 page 79; example 5 page 91 - page 100; examples 15,16	1-3,5-16					
	Citation of document, with indication, where appropriate, of the relevant passages WOJTOWICZ-PRAGA SLAWOMIR: "Reversal of tumor-induced immunosuppression by TGF-beta inhibitors." INVESTIGATIONAL NEW DRUGS vol. 21, no. 1, February 2003 (2003-02), pages 21-32, XP008035079 ISSN: 0167-6997 cited in the application the whole document YU D ET AL: "HYBRID OLIGONUCLEOTIDES: SYNTHESIS, BIOPHYSICAL PROPERTIES STABILITY STUDIES, AND BIOLOGICAL ACTIVITY" BIOORGANIC & MEDICINAL CHEMISTRY, vol. 4, no. 10, 1996, pages 1685-1692, XP000644792 ISSN: 0968-0896 RUBENSTEIN MARVIN ET AL: "Inhibition of PC-3 prostate cancer cell growth in vitro using both anti sense oligonucleotides and taxol." MEDICAL ONCOLOGY (TOTOWA), vol. 20, no. 1, 2003, pages 29-35, XPGO8035083 ISSN: 1357-0560 the whole document WO 99/63975 A (BIOGNOSTIK GES; BRYSCH WOLFGANG (DE); SCHLINGENSIEPEN KARL HERMANN (D) 16 December 1999 (1999-12-16) cited in the application WO 01/68146 A (BIOGNOSTIK GES; SCHLINGENSIEPEN KARL HERMANN) (D) 16 December 1999 (1999-12-16) cited in the application WO 01/68146 A (BIOGNOSTIK GES; SCHLINGENSIEPEN KARL HERMANN (DE); SCHLINGENSIEPEN RE) 20 September 2001 (2001-09-20) cited in the application WO 2004/005552 A (MONIA BRETT P; DOBIE KENNETH W (US); FREIER SUSAN M (US); ISIS PHARMA) 15 January 2004 (2004-01-15) page 54 - page 55 page 79; example 5					

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International application No PCT/EP2004/053604

INTERNATIONAL SEARCH REPORT

Box 11 Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons
1 \(\chi \) Claims Nos 18-23 ,25 because they relate to subject matter not required to be searched by this Authority, namely
Rule 39.1(iv) PCT - Method for treatment of the human or animal body by therapy
Claims Nos: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically see FURTHER INFORMATION sheet PCT/ISA/210
3 D Claims Nos because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule β 4(a)
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows-
see additi onal sheet
1 As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims
2 As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee
3 As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos
No required additional search fees were timely paid by the applicant Consequently restricted to the invention first mentioned in the claims, it is covered by claims Nos 1-23, 25 (all partial ly)
Remark on Protest The additional search fees were accompanied by the appl cant's protest No protest accompanied the payment of additional search fses

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-23,25 (all partially)

A composition associating a human TGF-betal anti-sense oligonucleotide (SEQ IDs 1-21) with an antineoplastic chemotherapeuti c agent, and its uses in the treatment of neoplasms.

2. claims: 1-23,25 (al 1 parti al ly)

As for subject 1., but concerning human TGF-beta2 anti sense ol i gonucleotides (SEQ IDs 22-48).

3. claims: 1-23,25 (al l partial ly)

As for subject 1., but concerning human TGF-beta3 anti sense ol i gonucl eotides (SEQ IDs 49-78).

4. claims: 4-13,15-17,19-23,25 (all parti ally)

As for subject 1., but concerning human PGE antisense oligonucleotides (SEQ IDs 79-89).

5. claims: 4-13,15-17,19-23,25 (al 1 partial ly)

As for subject 1., but concerning human VEGF antisense oligonucleotides (SEQ IDs 90-126).

6. claims: 4-13,15-17,19-23,25 (all parti ally)

As for subject 1., but concerning human IL-IO antisense oligonucleotides (SEQ IDs 127-146).

7. claims: 26-29

Peptide fragments of TGF-betal, -beta2 and/or -beta3, compositions comprising them and their use in the treatment of neoplasms.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.I

Claims Nos.: 18-23,25

Rule 39.1(iv) PCT - Method for treatment of the human or animal body by therapy

Continuation of Box II.2

Claims Nos.:

- 1. The dependency of present claim 4 to claim 1 is not correct as far as concerning SEQ IDs 79-146. Indeed, claim 1 concerns TGF-beta antagonists, whereas said SEQ IDs are antisenses against other target genes (according to pages 31 to 34 of underlying application). For the purpose of the search, claim 4 has therefore be considered as independent.
- 2. Present claims 1-3,7-23,25 relate to compositions associating (at least) two compounds defined solely by reference to a desirable characteristic or property, namely their ability to antagonise TGF-beta, stimulate the function of the immune system or immune cells, or to inhibit cell proliferation and/or induce cell death. The claims cover all associations of all compouds having these characteristics or properties, whereas the application provides support within the meaning of Article 84 EPC and/or disclosure within the meaning of Article 83 EPC for only a very limited number of such combinations. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Independent of the above reasoning, the claims also lack clarity (Article 84 EPC). An attempt is made to define the compounds by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search over the whole of the claimed scope impossible. Consequently, the search has been carried out for those parts of the claims which appear to be clear, supported and disclosed, namely those parts relating to the compositions associating TGF-betal antisense oligonucleotides (SEQ IDs 1-21 in claim 4) with chemotherapeuti c agents.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried

					Internat	ional Application No.	PCT/	EP2O04/	0536Q
RTHER INFOR	MATION CON	TINUED FROM	M PCT/IS	SA/ 21Θ					
out during should the overcome.	examinati problems	ion before which led	the EPG to the	O (see E Article	PO Gui	deline C-VI, declaration	8.5), be		

Information on patent family members

International Application No PCT/EP2004/053604

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
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